CURRICULUM VITAE

Naziha F. Nuwayhid, Ph.D., DABCC

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ACADEMIC DEGREES

1982 Ph.D. **Medical Sciences.**American University of Beirut, Beirut, Lebanon

1975 M.Sc. **Biology.**

American University of Beirut, Beirut, Lebanon.

1972 B.Sc. **Biology.**

American University of Beirut, Beirut, Lebanon.

CERTIFICATION

2001 Certified blood Alcohol Analyst. Washington State Toxicology Laboratory

1991 American Board of Clinical Chemistry.

ACADEMIC APPOINTMENTS & EMPLOYMENT

Feb 01-present Forensic Scientist

Washington State Toxicology Laboratory, Seattle, WA

1999- 2000 Forensic scientist

Commonwealth of Virginia, Department of Criminal Justice Services, Division of

Forensic Science, Richmond, VA

1999- 2000 **Post-doctorate Fellow, Forensic Toxicology.**

The Virginia Institute of Forensic Science and Medicine, Richmond, VA

1998-1999 Post-doctorate Fellow, Forensic and Clinical Toxicology.

Medical College of Wisconsin, Department of Pathology, Milwaukee, WI. &

Milwaukee County Medical Examiner's Office, Toxicology Department, Milwaukee,

WI.

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1996 1996 1991- 1997 1990-1996	Assistant Professor, Microbiology & Immunology Dept, TTUHSC, Lubbock, TX. Director, Special Clinical Immunology Laboratory, VAMC, Amarillo, TX Assistant Professor, Dept. of Internal Medicine, TTUHSC, Amarillo, TX Associate Director, Special Clinical Immunology Lab, VAMC, Amarillo, TX Texas Tech University Health Sciences Center (TTUHSC), Amarillo & Lubbock, TX Veterans Affairs Medical Center (VAMC), Amarillo, TX	
1985-1988	Post-doctorate Fellow, Clinical Chemistry, Pathology Dept, Iowa City, IA. University of Iowa Hospitals & Clinics, Iowa City, Iowa	
1982-1985	Post-doctorate Fellow, School of Medicine, Biochemistry Dept, St. Louis, Mo. Saint Louis University, St. Louis, Missouri	
1975-78	Instructor of Biology, School of Arts & Science, Beirut, Lebanon American University of Beirut, Beirut, Lebanon	
INDUSTRIAL APPOINTMENTS		
1997- 1998	Scientist, Research & Development SA Scientific Inc., San Antonio, Texas	
TRAINING & WORKSHOPS		
2010	Good Measurement Practices in the Proper Use and Calibration of Balances and Pipettes. AAFS 62 nd Annual Scientific Meeting. Seattle, WA. Feb 23.	
2010	Assessment and Interpretation of Toxicology in Neonatal, Pediatric, and Geriatric Deaths. AAFS 62 nd Annual Scientific Meeting. Seattle, WA. Feb 22.	
2009	Method Validation Workshop: A Comprehensive Overview. California Association of Toxicologists. Reno, NV. Nov 6-7.	
2009	The Emotionally Intelligent Manager. 37th Annual FBI Crime Laboratory Development Symposium. Madison, WI. May 4-8	
2009	Uncertainty measurements in Forensic Chemistry and Toxicology- Parts I, II, III. National Institute of Justice & RTI International. Online Activity. Feb 7, March 17, March 31.	
2008	Horizontal Gaze Nystagmus. International Association of Chiefs of Police. , Bainbridge Island, WA. April 23.	
2008	Courtroom Testimony Techniques "Success Instead of Survival". Ron Smith & Associates, Inc. Seattle, WA Jan 28-29.	

2007	Solid Phase Extraction . Society of Forensic Toxicology. Raleigh-Durham, NC. Oct.15.
2007	Clinical or Forensic Case- A Crossroad for Interpretation. Society of Forensic Toxicology. Raleigh-Durham, NC. Oct. 16.
2007	LC/MS Training Seminar. Restek. Seattle, WA. January 26.
2006	1100 Series LC/MSD technology and Software Operation. Agilent Technologies, Alpharetta, GA. December 5-8.
2006	Depression and Psychosis. California Association of Toxicologists. San Francisco, CA, June 9-10
2006	Pediatric Postmortem Toxicology. AAFS 58 th Annual Meeting. Seattle, WA. Feb 23.
2006	Driving under the Influence of Drugs- Updates and Case Studies . AAFS 58 th Annual Meeting. Seattle, WA. Feb 23.
2006	Identification Criteria for Drugs with Mass Spectrometry: Current Recommendations and Prospects for Emerging MS Techniques. AAFS 58 th Annual Meeting. Seattle, WA. Feb 21.
2006	Interpretation of Toxicological Analysis in the Elderly . AAFS 58 th Annual Meeting. Seattle, WA. Feb 20.
2006	Analgesics, Pain Management, and Addiction Workshop . California Association of Toxicologists. San Diego, CA, Jan 27-28
2005	Advanced Roadside Impaired Driving Enforcement. The A-RIDE Pilot Project. National Highway Safety Administration. Tacoma, WA, Oct. 10-11.
2005	Eliminating False Positive and False Negative Results in the Toxicology Laboratory. XIX International Congress of Clinical Chemistry. Orlando, FL, July 25.
2005	Developing Consensus Guidelines for Implementation and Utilization of Mass Spectrometry in Clinical Laboratory. XIX International Congress of Clinical Chemistry. Orlando, FL, July 25.
2005	Increasing the Use of Mass/Tandem Mass Spectrometry in Clinical Laboratories. XIX International Congress of Clinical Chemistry. Orlando, FL, July 24.
2005	Moot Court: Driving Under the Influence of Drugs and alcohol; a Training Experience. California Association of Toxicologists. Garden grove, CA, June 3.
2004	Poisons and Venoms of the Southwest. California Association of Toxicologists. Tempe, AZ, Sept. 25.
2004	SSRI Drugs. California Association of Toxicologists. Tempe, AZ, Sept. 24.
2004	The Effects of Drugs on Human Performance and Behavior. Indiana University; Robert Borkenstein Center for Studies of Law in Action. Bloomington, IN, Sept 19-22.

2004	DWI Detection and Field Sobriety Testing. Seattle Police. Seattle, WA. April 14-16.
2004	Exotic Drugs and Toxins Workshop. California Association of Toxicologists. Oakland, CA. March 12-13.
2003	Drugs and Driving. California Association of Toxicologists. Culver City, CA, November 7.
2003	Preparation and Planning for Laboratory Accreditation by the American Board of Forensic Toxicology (ABFT). Society of Forensic Toxicology. Portland, OR. October 21.
2003	Developments and Pharmacology of Antiepileptic drugs. Society of Forensic Toxicology. Portland, OR. October 21.
2003	Practical application of LCMS in Routine Forensic Toxicology. Society of Forensic Toxicology. Portland, OR. October 20.
2003	Psychopharmacology 2003; A Comprehensive Guide to Psychotropic Medication. Barry Pierce, MD. R. Cassidy Seminars. Bellevue, WA. October 17.
2003	Standardized Field Sobriety Tests , A refresher. Washington State Patrol. Bellevue, WA. May 28.
2003	Workshop on Interpretive Toxicology. The Joint meeting of the California Association of Toxicologists and Southern association of toxicologists. Albuquerque, NM, May 2.
2003	The A-Z of Marijuana. Canadian Society of Forensic Science. Vancouver, Canada, March 26.
2003	Chemical Drugs and the Rave Culture. Canadian Society of Forensic Science. Vancouver, Canada, March 27.
2001	The Robert F. Borkenstein Course on Alcohol, Drugs, and Highway Safety: Testing, Research, and Litigation. Indiana University Center for Studies of Law in Action.
1996	HIV Viral load testing using NASBA amplification. Organon Teknika.
1995	Alcohol in Health and disease. AACC Annual Meeting. Anaheim, CA, July 19.
1994	Pathology Practicum: Diagnostic Molecular Pathology. College of American Pathologists & University of Southern California & Los Angeles County Hospital, Los angels, CA, Feb 14-25.
1990	Southern Hybridization Workshop. ONCOR, Gaithersburg, MD.
	PROFESSIONAL ACTIVITIES
2004-05	Secretary; Pacific Northwest Section of the American Association of Clinical

1999	Scientific Advisory Board for the Society of Forensic Toxicology (SOFT) for the
	annual meeting "SOFT 2000 Milwaukee"
1998-1999	Assistant editor of sMATTerings; a newsletter for the Midwest Association for
	Toxicology and Therapeutic Drug Monitoring
1993-1996	Member of the "College of American Pathologists" inspection team.
1993-1995	Reviewer for "Clinical & Diagnostic Laboratory Immunology"

PROFESSIONAL ORGANIZATIONS

2008	Society of Forensic Toxicologists, member
1999	Midwest Association for Toxicology and Therapeutic Drug Monitoring, member
1999	International Association of Therapeutic Drug Monitoring & Clinical Toxicology
	(IATDMCT), member
1985-present.	American Association of Clinical Chemistry, member
1988	The New York Academy of Sciences, member.

RECOGNITION AND AWARDS

1981	Diana Tamari Sabbagh Travel Award, American University of Beirut
1986	AACC Travel Award
1989, 92, 94-96	Clinical Chemists Recognition Award
1994	HIV Education Project Award

COMMITTEES

1998- 1999	Founder of Pharmacogenetic Journal Club Department of Pathology, Medical College of Wisconsin, Milwaukee, WI.
1995- 1996	Clinical Investigations Committee Don & Sybil Harrington Cancer Center, Amarillo, TX.
1990- 1996	HIV/AIDS Committee Veterans Affairs Medical Center (VAMC), Amarillo, Texas

PUBLICATIONS

BOOK CHAPTER

Catherine A Phillips & **Naziha F Nuwayhid**. The malignant state: The molecular, cytogenetic, and immunologic basis of cancer, In Clinical Oncology. 1993. pp.3-10. Geoffrey Weiss, ed. Appleton at Lange.

INVITED REVIEW

Nuwayhid N (1995) Serologic tests for indirect detection of HIV-1 infection. Clin Diagnostic Lab Immunol 6:637-45

SCIENTIFIC ARTICLES

Schur BC, Bjerke J, **Nuwayhid N**, Wong SH (2001) Genotyping of cytochrome P450 2D6*3 and *4 mutations using conventional PCR. Clin Chim Acta 308:25-31.

Gock SB, Wong SHY, **Nuwayhid N**, Venuti SE, Kelley PD, Teggatz JR, Jentzen JM (1999) Acute zolpidem overdose- report of two cases. J Anal Tox 23(6):559-62.

Uy J, **Nuwayhid NF**, Saadeh C (1996) Unusual presentation of gout: Tips for accurate diagnosis. Postgraduate Medicine 100(10):253-268.

Nuwayhid NF, Johnson GF, Feld RD (1989) A multipoint kinetic method for the simultaneous measurement of the combined concentrations of acetoacetate-β-hydroxybutyrate and lactate-pyruvate. Clin Chem 35:1526-31.

Nuwayhid NF, Johnson GF (1989) Digoxin elimination in a functionally anepheric patient after digoxin-specific Fab fragment therapy. Ther Drug Monit. 11:680-5.

Nuwayhid NF, Johnson GF, Feld RD (1989) Kinetic measurement of the combined concentrations of acetoacetate and β-hydroxybutyrate in serum. Clin Chem 34:1790-3.

Czervionke RL, Johnson GF, **Nuwayhid NF**, Feld RD (1986) Quantification of analyte and interferent by multipoint analysis. Clin Chem 32:1648-54.

Nuwayhid N, Glaser JH, Johnson JC, Conrad ED, Hauser S, Hirschberg CB. (1986) Xylosylation and glucuronidation reactions in rat liver Golgi apparatus and endoplasmic reticulum. J Biol Chem 261:12936-41.

Deutscher SL, **Nuwayhid N**, Stanley P, Briles EB, Hirschberg CB (1984) Translocation across Golgi vesicle membranes: a Chinese hamster ovary glycosylation mutant deficient in CMP-sialic acid transport. Cell 39:295-9.

ABSTRACTS & PRESENTATIONS:

Nuwayhid N, Wickham D, Gordon AM, Logan BK. (2007) Postmortem cesium concentrations in a cancer patient: A case report. Joint Meeting of the International Association of Forensic Toxicologists (TIAFT) and the International Council on Alcohol, Drugs and Traffic Safety (ICADTS), Seattle, WA.

Schranz D, Loew S, Raven K, **Nuwayhid N**, Gordon AM, Logan BK. (2003) Death following long term fluoxetine use. Society of Forensic Toxicologists Annual Meeting, Portland, Oregon.

Nuwayhid N, Wong SHY, Gock S, Kelley PD, Jentzen JF (1999) A case report of postmortem immunosuppressant concentration. Ther Drug Monit. 21(4):439.

Nuwayhid N, Wong SHY, Ashwood L, Mayer L, Saryan L, Linke G, Taha T (1999) Prevalence of elevated blood lead concentrations in children in the Milwaukee population. Clin Chem 45(S6):A21.

Manis L, **Nuwayhid N**, Wong SHY, Hariharan S, Bresnaham B (1999) Monitoring of mycophenolic acid and mycophenolic acid glucuronide in patients post renal transplantation. Clin Chem 45(S6):A126

Schur BC, Bjerke J, **Nuwayhid N**, Wong SHY (1999) Towards genotyping CYP2D6. Annual Meeting of the Midwest Association for Toxicology & Therapeutic Drug Monitoring, Minneapolis, MN, April 30-May 1

Nuwayhid N, SB Gock, Wong SHY, PD Kelley, JR Teggatz, JM Jentzen (1999) Acute zolpidem overdose- A case report. 6th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology. Cairns, Australia, September 13-17.

Nuwayhid N, Wong SHY, S Gock, PD Kelley, JF Jentzen. (1999) A case report of postmortem immunosuppressant concentrations. 6th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology. Cairns, Australia, September 13-17.

Nuwayhid NF (1996) Emerging and standard tests for the diagnosis and prognosis of HIV-1 infection. The Primary Care Perspective of the AIDS Continuum. Amarillo, Texas, May 31-June 1.

El-Shar A, Saadeh C, **Nuwayhid NF** (1996) Antiphospholipid antibody syndrome (APAS): an unusual presentation in an adolescent male. Accepted for presentation at the 90th Annual Scientific Assembly of the Southern Medical Association. Baltimore, Maryland, November 20-24.

Uy J, Saadeh C, **Nuwayhid NF** (1995) Unusual presentation of gout: lessons and guides to the primary care physician. 89th Annual Scientific Assembly of the Southern Medical Association. Kansas City, Missouri, November 15-19.

Nuwayhid NF, Phillips CA (1994) HealthNet Program: Update on HIV/AIDS Testing, Regional Healthcare provider teleconference. Amarillo, Texas. June.

Cone JC, Lu Y, Bjrondahl J, **Nuwayhid N**, Trevillyan J, Phillips CA (1992) Signal transduction requirements of the Fc RIII (CD16) in the continuous NK cell line, NK3.3. Eight international natural killer cell workshop and first meeting of the society of natural immunity. Tampa, Florida, October 4-6.

Nuwayhid NF, Johnson GF (1989) Elimination of total digoxin from a patient in chronic renal failure post Fab fragment (digibind) therapy. Clin Chem 35:1179.

Nuwayhid NF, Johnson GF, Feld RD (1989) Simultaneous measurement of ketone bodies: acetoacetate (AcAc) and β-hydroxybutyrate (BHB). Clin Chem 32:1175.

Nuwayhid N, Glaser JH, Johnson JC, Conrad ED, Hauser S, Hirschberg CB (1985) Mechanisms of glucuronidation and xylosylation in rat liver endoplasmic reticulum and Golgi apparatus. J Cell Biol 101:439a.

Nuwayhid N, Coe E (1982) Motility and aggregation in cellular slime mold amoebae. Seventh Meeting of the Lebanese Association for the Advancement of Science.

Nuwayhid N, Coe E (1981) Effects of dimethylsulfoxide (DMSO) on the development of \underline{D} . $\underline{discoideum}$. Fed Proc 40:556

Jannun R, **Nuwayhid N**, Coe E. (198) Biological bromination: bromoperoxidase activity of the Murex sea snail. Fed Proc 40:1774.

Coe E, **Nuwayhid N** (1980) Response to c-AMP in suspension culture of wild type \underline{D} . discoideum. Fed Proc 39:1953